DAILY FIELD ACTIVITY REPORT

PROJECT NAME: Pre-Remedial Design Investigation and Baseline Sampling, Portland Harbor Superfund Site

DATE: April 16, 2018	**WEATHER:** Mostly cloudy with intermittent wind and light rain, high ~50 degrees F

Personnel and Visitors Onsite:
Research vessel Cayuse - (no oversight representative) AECOM: Mark Tauscher; Geosyntec: Luke Smith; Gravity Marine: John Schaefer, Peter Jenkins

Research vessel Tieton - CDM Smith: Julee Trump; AECOM: Nicky Moody; Geosyntec: Adam McGure; Gravity Marine: Mike Duffield, Maggie Mckeon

Planned Activity:

- Collect surface sediment samples at stratified random sample locations between river mile (RM) 4.5 and 6.

Activity Completed:
A tailgate safety meeting was led by AECOM. Topics included near misses/good catches (avoiding irresponsible boat traffic, decontamination of area and sampling equipment, stormy weather, fatigues). CDM Smith reminded that the programmatic HASP limits the number of hours worked per worker is 60 hrs/week, and reiterated importance of keeping contamination out of the support zone.

Bar test (regular check for fathometers) and position check (morning and evening GPS check) at PH-2 (piling at Fred Devine Diving and Salvage) were conducted for both vessels. Bar tests are planned to be completed with each rinsate blank, and position checks are planned to continue in morning and evening until EPA is otherwise notified for approval.

Julee Trump performed oversight of surface sediment sampling at random stratified locations on the west side of on the Willamette River from 08:00 to 18:10 on board the Tieton. Specific activities completed by the AECOM/Geosyntec team, with vessel support from Gravity Marine, are as follows:

- 3-point composite surface sediment samples were collected from four random stratified sampling locations between RM 4.5 and 5.3 West as summarized below, and which were previously skipped for logistical reasons when discussing the 20 cm minimum recovery. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.
- PDI-SG-B40-BL1 was attempted in the 25 FT radius and will be continued in the 50 FT radius after only 1 of 5 grabs were successful. Successful grab showed silt over sand, moderate sheen observed in sheen test of sand. Moderate petroleum odor observed in sand with clumped sands with rubbery particulate.
- A rinsate Blank was collected

Julee Trump received updates from the Gravity crew of the Cayuse at 18:20, as AECOM/Geosyntec had returned to the lab. The following work was completed:

- 3-point composite surface sediment samples were collected from 5 random stratified sampling locations between approximately RM 5.6 and 6 East as summarized below. Activities included decontamination of sampling equipment using Alconox and deionized/distilled water and housekeeping of the sampling area.
- PDI-SG-B169-BL1 was attempted in the 25 FT radius. Sampling will continue in the 50 FT radius tomorrow.
- Rinsate Blank was collected
- Duplicate Sample was collected

Status of Schedule & Priority Work:

- Random stratified sampling will continue through the week and into next week, progressing up the river.
- Locations on private property are being skipped until access agreements are obtained.
- Sampling is taking more time than initially projected.

Issues/Concerns/Resolutions (include work performed that was not planned or anticipated):
The FSP indicates that sediment with a “significant” sheen will be contained for onshore storage, profiling and disposal. Sediment and associated water can be returned to the sample site in the absence of significant sheen. In the field, the sampling crews are checking for a “significant” sheen based on the FSP sheen text result of sediment producing a heavy sheen (covering 70% of the water surface in the sheen test) during the sheen text. This is consistent with EPA’s expectations of containing sediment for disposal when a sheen pervades an entire bowl of the homogenized sediment (any depth or thickness). No sheens have been observed in the river as a result of the power grab sampling or sample

return; however, the crews are equipped with floating booms, absorbent pads, spill contact information for mitigation and reporting, if observed.

Samples Collected, Measurements Made, Photographs: (List Locations, Matrix & Sample type):
On the Tieton, stratified random surface sediment samples were collected at following locations between RM 5.5 and 5.8 on the West side of the channel (see image below for location information):

- PDI-SG-B112-BL1 – Silt over sandy silt, woody debris and other trace organics, clam
- PDI-SG-B115-BL1 – Silt
- PDI-SG-B133-BL1 – Silt over sand, trace organic sheen, shrimp
- PDI-SG-B135-BL1 – Moved to alternate 2 location due woody debris and rocks preventing adequate recovery. Alternate 1 location was blocked by permanent structures. Alternate 2 location contained silt with trace organics.
- All samples except PDI-SG-B152-BL1 were within the 25 FT sample location radius.
- Sediment descriptions are simplified descriptions. AECOM/Geosyntec collected detailed descriptions.

On the Cayuse, stratified random surface sediment samples were collected at following locations between RM 5.6 and 6 on the East side of the channel (see image below for location information):

- PDI-SG-B167-BL1
- PDI-SG-B164-BL1
- PDI-SG-B164-BL1-D – Duplicate to PDI-SG-B164-BL1
- PDI-SG-B163-BL1
- PDI-SG-B156-BL1 – Moved to alternate location 1 due to poor recoveries in sand
- PDI-SG-B159-BL1 – Moved to alternate location 1 due to poor recoveries caused by broken concrete pieces.

Photographs of work were taken throughout the day on board the Tieton and provided to EPA via email. Additional photos were taken and archived with a description included in the photolog Excel spreadsheet, which are maintained electronically in the ProjectWise project folder.

Borings Completed (Include total footage drilled for each boring):
None

Wastes Generated and How Handled:

- Heavy petroleum sheen was not observed on the Tieton or Cayuse. Excess sediment and debris in the power grab sampler and in the sampling bowls was rinsed back into the river per the FSP.
- Disposable gloves, paper towels, and other general trash was containerized in a trash bag and removed daily for disposal to a municipal waste management dumpster.

Health and Safety Issues, Equipment Needs, Staffing:
None, work conducted in accordance with the HASP and HASP addendum.

Signature: Julee Trump **DATE** April 16, 2018

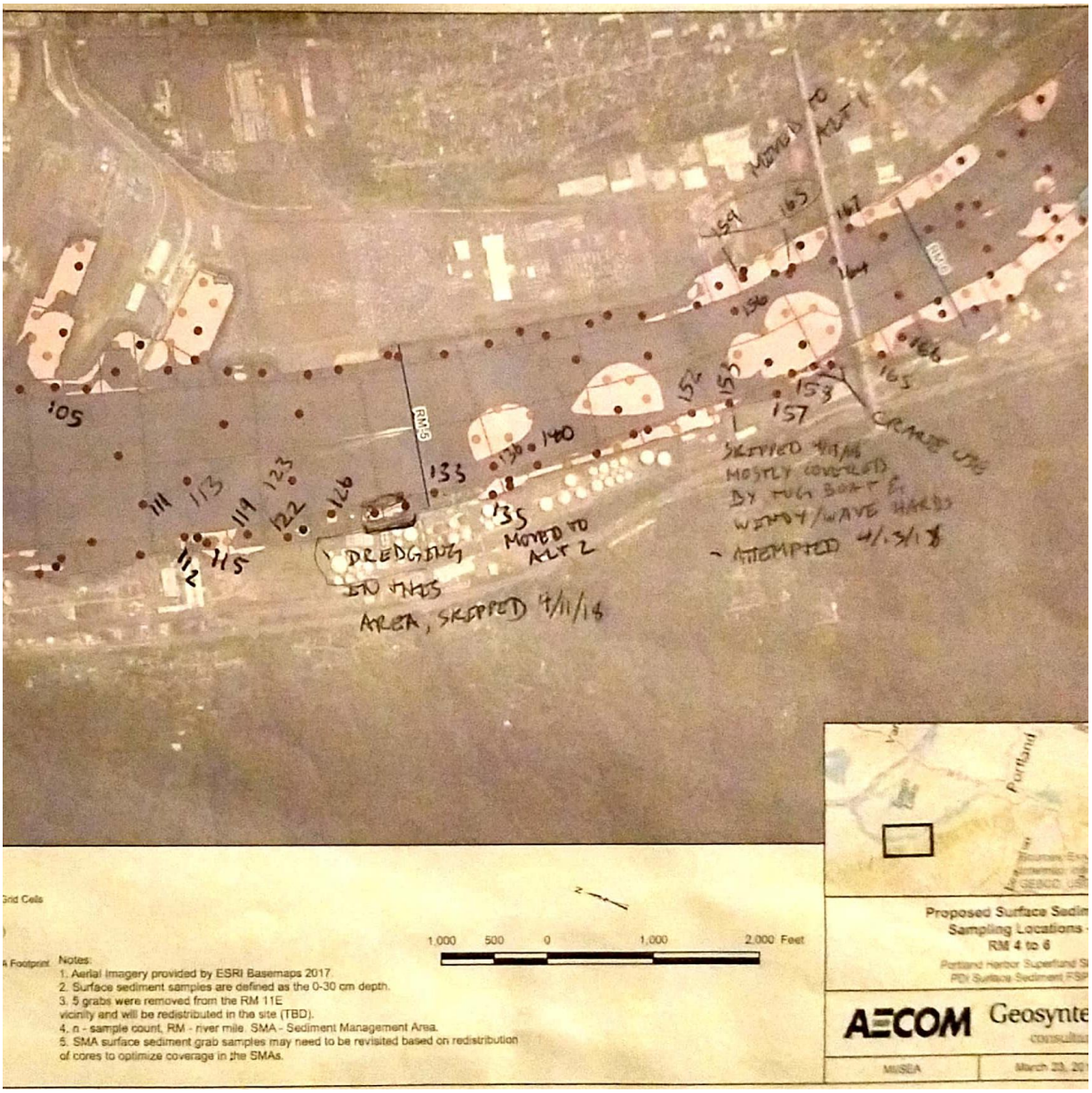

Figure 1: Field location notes